

FIG. 1 (Prior Art)

		Initial state					
CLEAR TASK Signal	ADD TASK Signal	TaskN-1 stored in AddressN-1	$V_{N-1}=1$	TaskN stored in AddressN	$V_N=1$	Don't care AddressN+1	$V_{N+1}=0$
0	0	No change	$V_{N-1}=1$	No change	$V_N=1$	No change	$V_{N+1}=0$
0	1	No change	$V_{N-1}=1$	No change	$V_N=1$	TaskN+1 (Task IN)	$V_{N+1}=1$
1	0	Task N	$V_{N-1}=1$	Invalid add	$V_N=0$	Don't care	$V_{N+1}=0$
1	1	Task N	$V_{N-1}=1$	TaskN+1 (Task IN)	$V_N=1$	Don't care	$V_{N+1}=0$

Task N-1 is the oldest task

FIG. 4

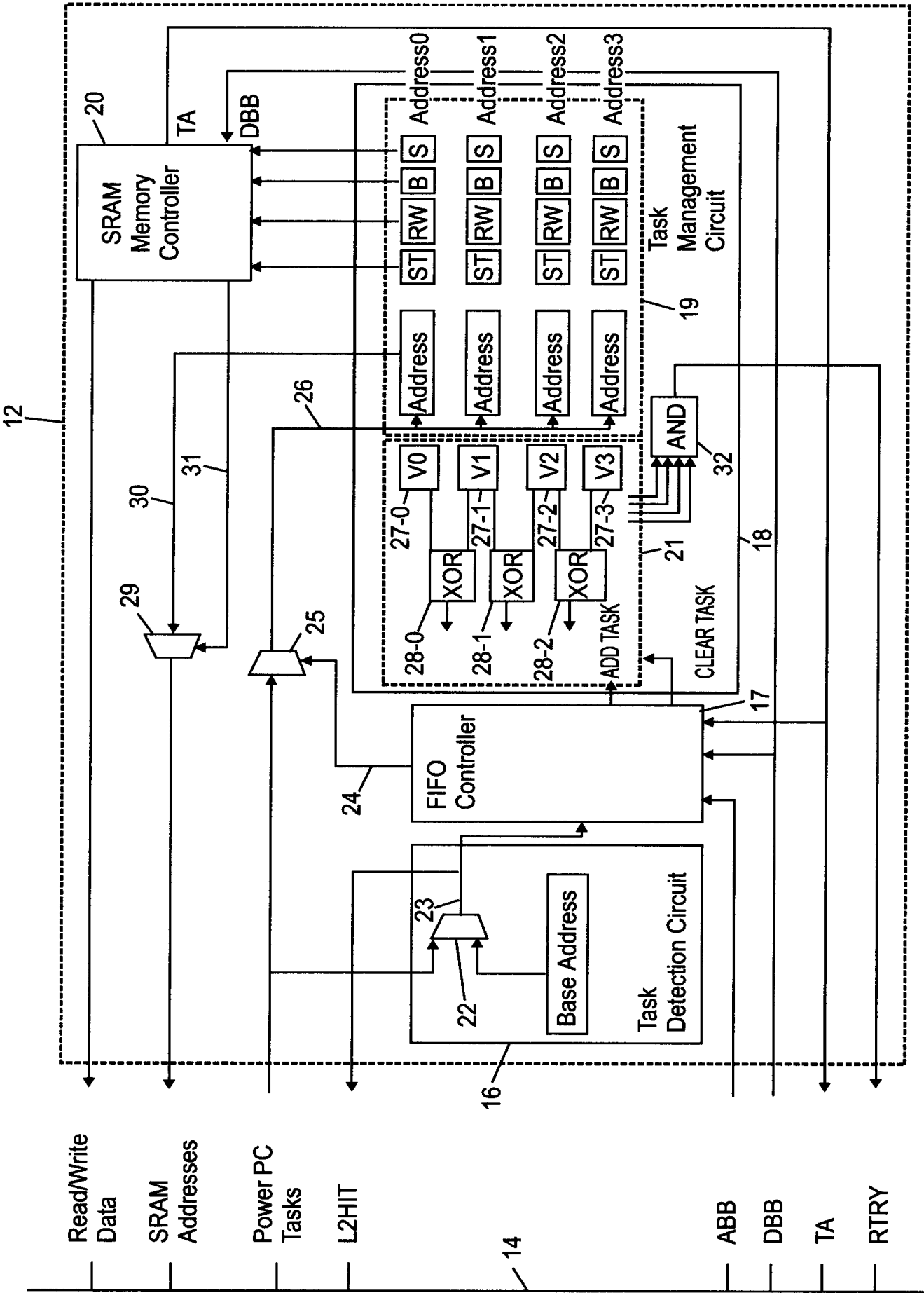
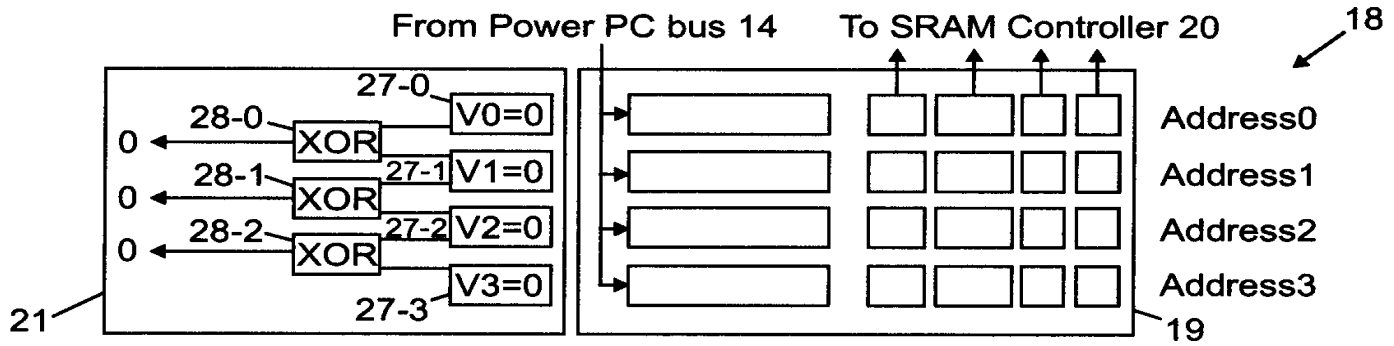
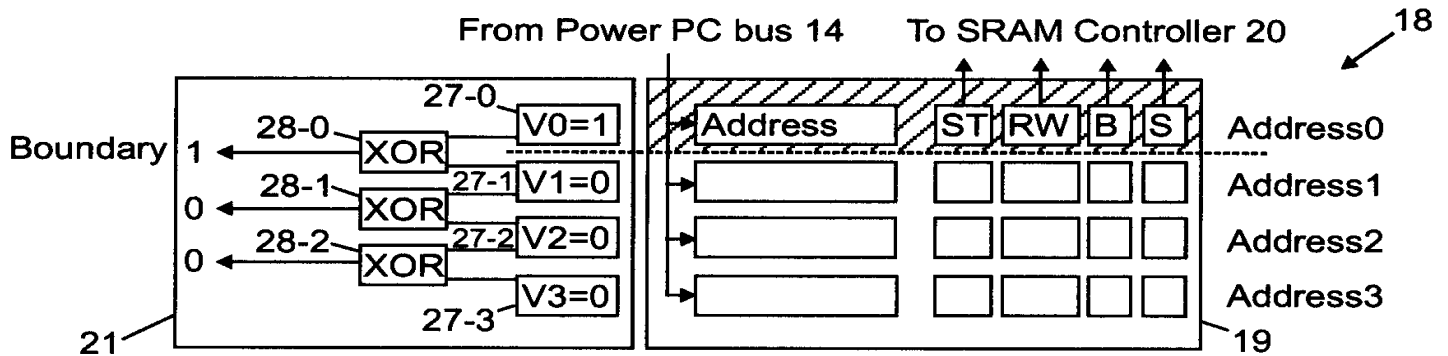
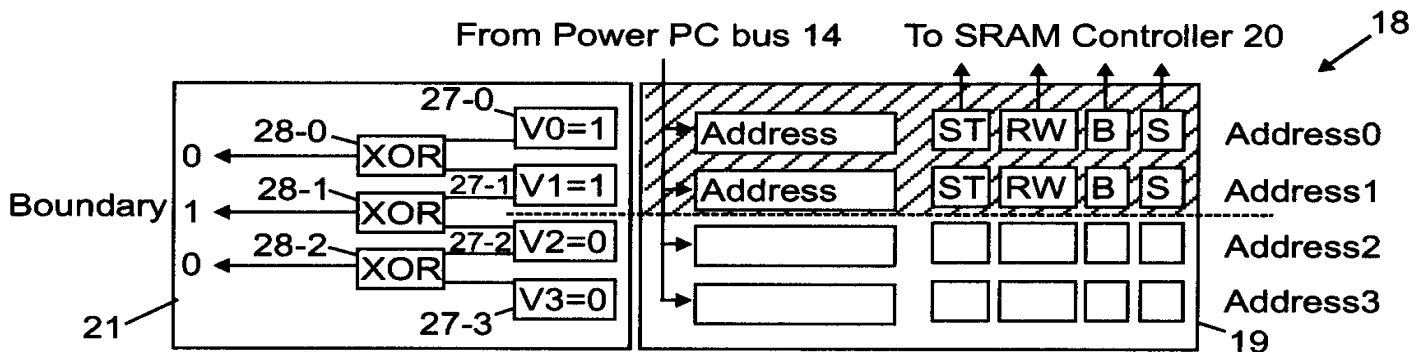
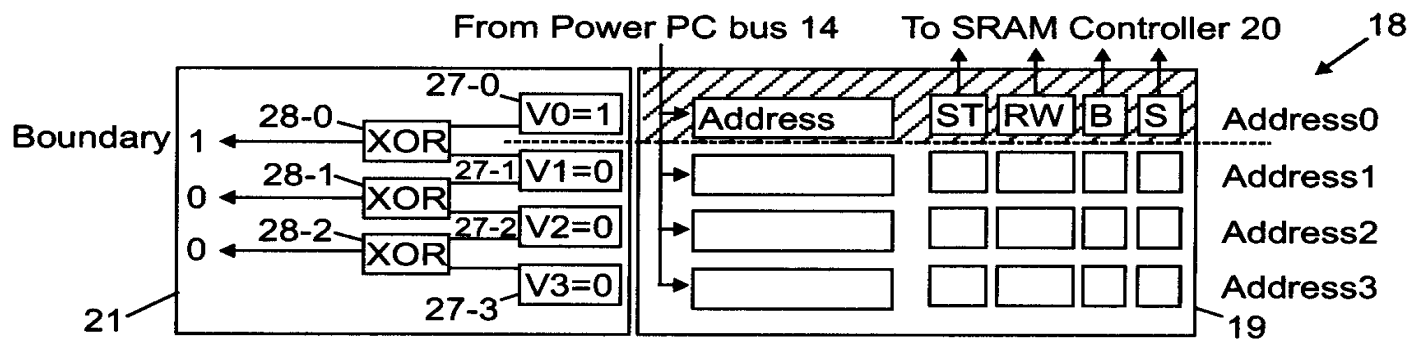


FIG. 2

**3/5****FIG. 3a****FIG. 3b****FIG. 3c****FIG. 3d**



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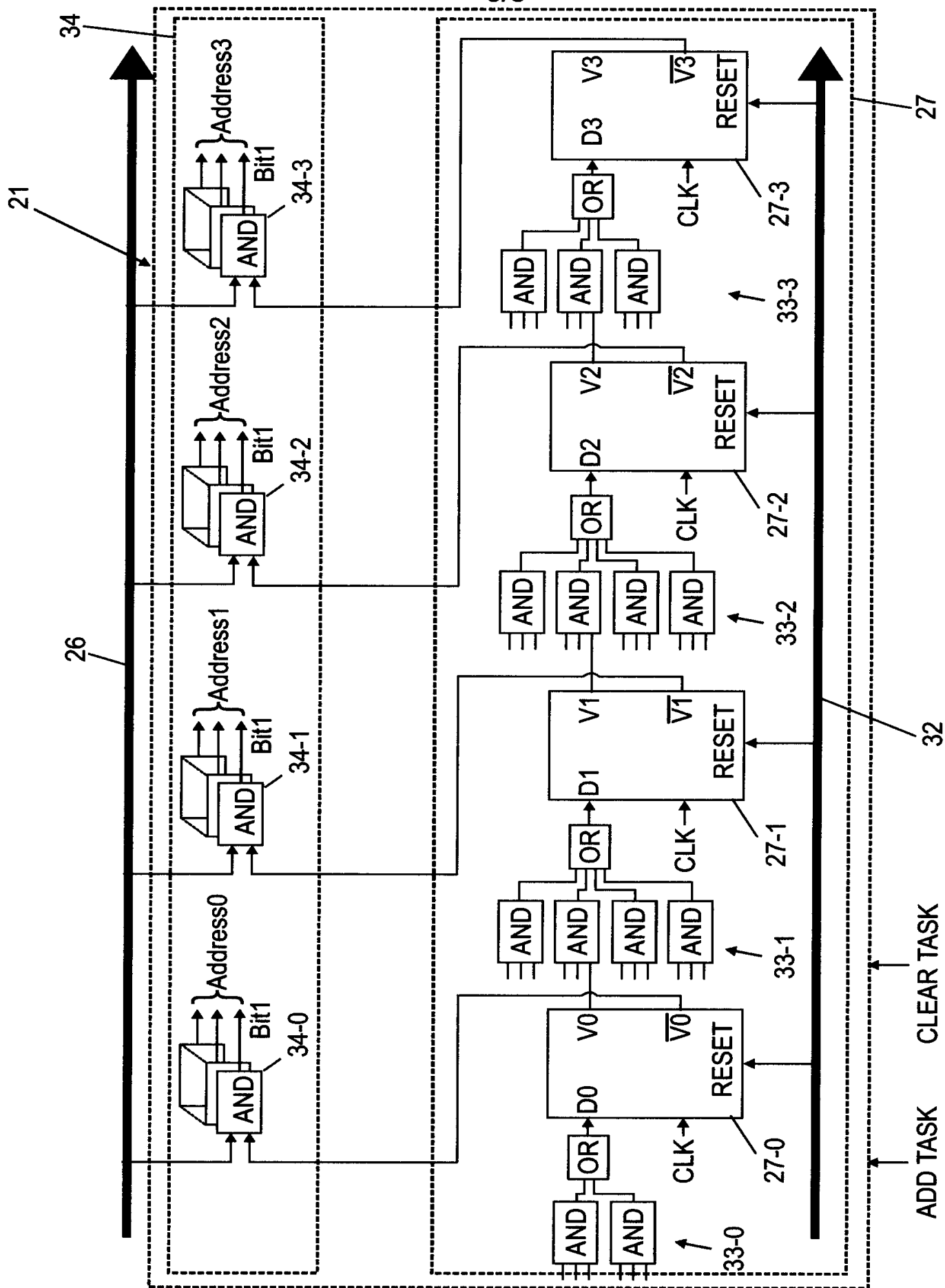


FIG. 6